

No.

200300045



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Agripro Wheat, a business unit of Adianta U.S.A. Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE  
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A SEED OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE SEED. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'AP401 CL'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty fourth day of June, in the year two thousand three.

Attest:



*R. M. Jahn*

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*W. F. Freeman*  
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**  
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the privacy Act of 1974 (5 U.S.C. 552a)

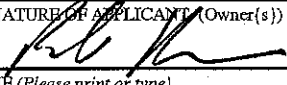

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421) Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) <b>AgriPro Wheat, a business unit of Advanta U.S.A. Inc.</b>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER <b>iPlatte-05</b>	3. VARIETY NAME <b>AP401 CL</b>
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) <b>6515 Ascher Road Junction City, Kansas 66441</b>		<b>785-210-0218</b>	PVPO NUMBER <b>200300045</b>
7. GENUS AND SPECIES NAME <b><u>Triticum aestivum</u></b>	8. FAMILY NAME (Botanical) <b>Gramineae</b>		DATE <b>Nov. 25, 2002</b>
9. CROP KIND NAME (common name) <b>Hard White Winter Wheat</b>		FILING AND EXAMINATION FEE <b>2705.00</b>	
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (common name) <b>Corporation</b>		DATE <b>11/25/02</b>	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION <b>Delaware</b>	12. DATE OF INCORPORATION <b>1985</b>		CERTIFICATION FEE <b>432.00</b>
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS <b>Mr. Rob Bruns 806 N. Second Street Berthoud, Colorado 80513</b> or <b>Dr. Rollin Sears 6515 Ascher Road Junction City, Kansas 66441</b>		DATE <b>5/7/03</b>	
14. TELEPHONE (include area code) <b>785-210-0218</b>		15. FAX (include area code) <b>785-210-0231</b>	
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (follow instructions on reverse)			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Applicant's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds, or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)			
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input checked="" type="checkbox"/> YES (if "yes", answer items 18 and 19 below) <input type="checkbox"/> NO (if "no", go to item 20)			
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER GENERATIONS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDERS SEED? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES (if "YES", give names of countries and dates) <input checked="" type="checkbox"/> NO			

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT (Owner(s)) 		SIGNATURE OF APPLICANT (Owner(s)) 	
NAME (Please print or type) <b>Rob Bruns</b>		NAME (Please print or type) <b>Dr. Rollin Sears</b>	
CAPACITY OR TITLE <b>Manager Wheat Business</b>	DATE <b>11-5-02</b>	CAPACITY OR TITLE <b>Co-Manager Wheat Business</b>	DATE <b>11-05-02</b>

## ***Exhibit A.***

### ***Origin and Breeding History of AP401 CL***

In 1996, a small seed sample of Platte, an AgriPro hard white winter wheat was provided to BASF (formerly American Cyanamid) for induced mutagenesis induction under contract utilizing a proprietary procedure designed to induce minor mutation events conferring genetic resistance to the imidazolinone class of herbicides. In 1999 AgriPro received a small sample of iPlatte-05 containing a mutation event identical to the original wheat mutation event in the French wheat variety Fidel. The Fidel event is a single gene dominant trait known as fs2, now referred to as als1. The iPlatte-05 event was characterized as being molecularly identical to als1 and when test-crossed with als1 shows no segregation in the F2 generation.

Plants of iPlatte-05 were grown in the greenhouse in the fall of 1999. Nineteen individual plants from this line were harvested and grown in the field in the spring of 2000. After harvest, all lines were evaluated for red seed contamination due to out-crossing. Seven sister-lines were selected and planted on 12 acres as individual progeny breeder plots in the fall of 2000. Concurrently, regional testing was done to ensure that iPlatte-05 was phenotypically identical to the mother line Platte. After harvest, one line was discarded due to red seed mixture and six progeny plots were bulked to produce 900 50# units of Foundation seed. iPlatte-05 was given the commercial name of AP401 CL and planted under seed contract in Colorado, Nebraska, and Kansas. AP401 CL was offered for sale as Foundation and Registered seed in July of 2002.

AP401 CL was uniform and stable in 2001 and 2002. Less than 0.8% of the plants were rogued from the Breeder's seed increase in 2001. Approximately 85% of the rogued variant plants were taller height wheat plants (5 to 15 cm), 3% were bronze chaffed at maturity and 2% were awnletted wheat plants. Up to 1% variant plants may be encountered in subsequent generations.

In addition to the normal phenotypic variants listed above, a red seeded variant of 0.8% may be encountered.

***Statement of Distinctness***  
***Exhibit B.***

AP401 CL is most similar to the hard white winter wheat 'Platte'. However it can be distinguished by the following characteristic:

- AP401 CL contains a single dominant gene als1 conferring tolerance to the registered herbicide "Beyond" owned by BASF, this herbicide controls a broad spectrum of both weedy annual grasses and broadleafs in wheat while the variety Platte does not. All current wheat cultivars without als1 resistance genes including Platte are susceptible to the herbicide.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE DIVISION  
BELTSVILLE, MARYLAND 20705

EXHIBIT C  
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY  
WHEAT (*Triticum* Spp.)

NAME OF APPLICANT(S)

AgriPro Wheat, a business unit of Advanta U.S.A. Inc.

ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)

6515 Ascher Road

Junction City, Kansas 66441

FOR OFFICIAL USE ONLY

PVPO NUMBER

200300045

NAME OR EXPERIMENTAL

DESIGNATION

AP401 CL

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in the first box when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized standard may be used to determine plant colors; designate system used.

Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND:

1=Common 2=Durum 3=Club 4=Other (specify) \_\_\_\_\_

2. VERNALIZATION:

1=Spring 2=Winter 3=Other (specify) \_\_\_\_\_

3. COLEOPTILE ANTHOCYANIN:

1=Absent 2=Present

4. JUVENILE PLANT GROWTH:

1=Prostrate 2=Semi-erect 3=Erect

5. PLANT COLOR (boot stage):

1 = Yellow-Green 2 = Green 3 = Blue-Green

6. FLAG LEAF (boot stage):

1 = Erect 2 = Recurved

1 = Not Twisted 2 = Twisted

7. EAR EMERGENCE:

Number of Days Earlier Than \_\_\_\_\_ \*

Number of Days Later Than Rio Blanco \*

8. ANTER COLOR:

1 = YELLOW 2 = PURPLE

9. PLANT HEIGHT (from soil to top of head, excluding awns):

cm Taller Than Equal to Rio Blanco \*

cm Shorter Than \_\_\_\_\_ \*

\* Relative to a PVPO-Approved Commercial Variety Grown in the Same Trial

MAH  
4-9-2003

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## 10. STEM:

## A. ANTHOCYANIN

☒ 1 1= Absent 2=Present

## B. WAXY BLOOM

☒ 2 1=Absent 2=Present

## C. HAIRINESS (last internode of rachis)

☒ 2 1=Absent 2=Present

## D. INTERNODE (specify number)

☒ 1 1=Hollow 2=Semi-solid 3=Solid

## E. PEDUNCLE

☒ 1 1=Erect 2=Recurved☒ 2 ☐ 0 cm Length

## 11. HEAD (at Maturity):

## A. DENSITY

☒ 2 1=Lax 2=Middense 3= Dense

## B. SHAPE

☒ 1 1 = Tapering 2= Strap 3 = Clavate 4 = Other (specify) \_\_\_\_\_

## C. CURVATURE

☒ 1 1 = Erect 2 = Inclined 3 = Recurved

## D. AWNEDNESS

☒ 4 1 = Awnless 2 = Apically Awnletted 3 = Awnletted 4 = Awned

## 12. GLUMES (at Maturity):

## A. COLOR

☒ 1 1 = White 2 = Tan 3 = Other (specify) \_\_\_\_\_

## B. SHOULDER

☒ 2 1 = Wanting 2 = Oblique 3 = Rounded 4 = Square 5 = Elevated 6 = Apiculate

## C. BEAK

☒ 3 1 = Obtuse 2 = Acute 3 =Acuminate

## D. LENGTH

☒ 2 1 = Short (ca. 7mm) 2 = Medium (ca. 8mm) 3 = Long (ca. 9mm)

## E. WIDTH

☒ 2 1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm) 3 = Wide (ca. 4mm)

## 13. SEED:

## A. SHAPE

☒ 1 1 = Ovate 2 = Oval 3 = Elliptical

## B. CHEEK

☒ 1 1=Rounded 2=Angular

## C. BRUSH

☒ 2 1=Short 2=Medium 3=Long☒ 1 1 = Not Collared 2 = Collared

## D. CREASE

☒ 1 1 = Width 60% or less of Kernel  
2 = Width 80% or less of Kernel  
3 = Width Nearly as Wide as Kernel☒ 1 1 = Depth 20% or less of Kernel  
2 = Depth 35% or less of Kernel  
3 = Depth 50% or less of Kernel

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## 13. SEED: (continued)

## E. COLOR

☐ 1 = White    2 = Amber    3 = Red    4 = Other (specify) \_\_\_\_\_

## F. TEXTURE

☐ 1=Hard    2=Soft

## G. PHENOL REACTION (see instructions):

☐ 1 = Ivory    2 = Fawn    3 = Light Brown    4 = Dark Brown    5 = Black

14. DISEASE: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)    5=moderately resistant  
PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED    6=moderately susceptible

<input type="checkbox"/> Stem Rust ( <i>Puccinia graminis</i> f. sp. <i>tritici</i> ) Field races	<input type="checkbox"/> Leaf Rust ( <i>Puccinia recondita</i> f. sp. <i>tritici</i> ) Field races
<input type="checkbox"/> Stripe Rust ( <i>Puccinia striiformis</i> )	<input type="checkbox"/> Loose Smut ( <i>Ustilago tritici</i> )
<input type="checkbox"/> Tan Spot ( <i>Pyrenophora tritici-repentis</i> )	<input type="checkbox"/> Flag Smut ( <i>Urocystis agropyri</i> )
<input type="checkbox"/> Halo Spot ( <i>Selenophoma donacis</i> )	<input type="checkbox"/> Common Bunt ( <i>Tilletia tritici</i> or <i>T. laevis</i> )
<input type="checkbox"/> <i>Septoria nodorum</i> (Glume Blotch)	<input type="checkbox"/> Dwarf Bunt ( <i>Tilletia controversa</i> )
<input type="checkbox"/> <i>Septoria avenae</i> (Speckled Leaf Disease)	<input type="checkbox"/> Karnal Bunt ( <i>Tilletia indica</i> )
<input type="checkbox"/> <i>Septoria tritici</i> (Speckled Leaf Blotch) Field races	<input type="checkbox"/> Powdery Mildew ( <i>Erysiphe graminis</i> f. sp. <i>tritici</i> ) Field races
<input type="checkbox"/> Scab ( <i>Fusarium</i> spp.)	<input type="checkbox"/> Snow Molds
<input type="checkbox"/> Black Point (Kernel Smudge)	<input type="checkbox"/> Common Root Rot ( <i>Fusarium</i> , <i>Cochliobolus</i> and <i>Bipolaris</i> spp.)
<input type="checkbox"/> Barley Yellow Dwarf Virus (BYDV)	<input type="checkbox"/> Rhizoctonia Root Rot ( <i>Rhizoctonia solani</i> )
<input type="checkbox"/> Soilborne Mosaic Virus (SBMV) Field races	<input type="checkbox"/> Black Chaff ( <i>Xanthomonas campestris</i> pv. <i>translucens</i> )
<input type="checkbox"/> Wheat Yellow (Spindle Streak) Mosaic Virus Field races	<input type="checkbox"/> Bacterial Leaf Blight ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )
<input type="checkbox"/> Wheat Streak Mosaic Virus (WSMV) Field races	<input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> Other (specify) _____

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15. INSECT: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

<input checked="" type="checkbox"/> 1	Hessian Fly ( <i>Mayetiola destructor</i> )	<input checked="" type="checkbox"/> 1	Other ( <i>specify</i> )
<input type="checkbox"/> 0	Stem Sawfly ( <i>Cephus</i> spp.)	<input type="checkbox"/>	Other ( <i>specify</i> )
<input type="checkbox"/> 0	Cereal Leaf Beetle ( <i>Oulema melanopa</i> )	<input type="checkbox"/>	Other ( <i>specify</i> )
<input type="checkbox"/> 0	Russian Aphid ( <i>Diuraphis noxia</i> )	<input type="checkbox"/>	Other ( <i>specify</i> )
<input type="checkbox"/> 0	Greenbug ( <i>Schizaphis graminum</i> )	<input type="checkbox"/>	Other ( <i>specify</i> )
<input type="checkbox"/> 0	Aphids		

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

None



***Exhibit D.***  
***Additional Description of AP401 CL***

AP401 CL is a hard white winter wheat bred and developed by Agripro Wheat. AP401 CL is very similar to the existing Agripro Variety Platte. It is a high yielding, short semidwarf wheat with medium maturity and excellent straw strength. Milling and baking characteristics are good.

Juvenile growth habit is semi-erect. Seedling anthocyanin is present. Plant color at boot stage is green. Anther color is yellow. Auricle anthocyanin and auricle hairs are present. Waxy bloom is present on the stem and flag leaf sheath. Head shape is tapering and awned. Glumes are midwide and midlong with an oblique shoulder shape and acuminate beak. Seed shape is ovate. Seed depth is shallow and width is narrow. Seed cheeks are rounded.

AP401 CL is well adapted to a large portion of the Hard Winter Wheat region. This includes western Kansas, southwestern Nebraska, eastern Colorado and the states of Texas and Oklahoma.

AGRI PRO WHEAT  
HARD WINTER WHEAT  
QUALITY SUMMARY

VARIETY	Year	Loc	WHT PROT 14%mb	FLR PROT 14%mb	NORRIS HARD	FLR YLD	ASH 14%mb	MIXO PK TIME min	MIXO PK HT	TOL	TR R	BAKE ABSOR %	BAKE MIX TIME min	LOAF VOL cc	GRAIN R	TEX R	COLOR R
PLATTE	2002	DW	17.5	16.0	74	67.6	0.395	3.75	5.25	736	5	68.0	2.75	1075	4	3	3
PLATTE	2002	IRW	14.7	13.5	71	69.8	0.395	3.50	5.50	930	3	65.5	3.00	1070	4	2	2
AVERAGE			16.1	14.8	72	68.7	0.395	3.63	5.38	833	4	66.8	2.90	1072	4	2.5	2.5
AP401 CL	2002	DW	18.3	16.6	78	67.4	0.427	3.25	5.00	726	5	69.0	2.75	1025	4	3	3
AP401 CL	2002	IRW	14.6	13.3	75	70.0	0.391	3.25	5.25	989	4	67.0	3.25	1075	3	3	3
AVERAGE			16.5	15.0	77	68.7	0.409	3.25	5.13	858	4.5	68.0	3.00	1050	3.5	3.0	3.0

RATINGS: 1-2 Excellent 3-4 Good 5-6 Acceptable 7-8 Questionable 9=Unacceptable

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## 2001 AgriPro Yield Trials

(less experimentals)

### Western Plains Dryland Trials

Variety	QK	GK	OC	SC
2137	71.5	36.9	31.4	30.3
AKRON	70.6	45.4	27.9	28.9
ALLIANCE	72.2	35.8	33.0	33.7
ARLIN	53.2	25.9	36.3	28.6
BETTY	61.2	21.5	38.0	26.3
HEYNE	62.9	25.6	27.6	18.9
INTRATA	69.3	30.0	40.0	26.9
JAGGER	58.5	45.6	34.5	33.5
LAKIN	73.3	36.1	36.3	30.1
NUFRONTIER	67.8	34.3	34.1	29.2
NUHORIZON	64.2	37.0	31.8	29.9
NUPLAINS	62.3	28.2	35.0	24.6
ORO BLANCO	67.7	32.9	37.8	27.2
PLATTE	70.0	30.4	28.6	30.7
AP401 CL	70.2	32.9	33.3	23.4
SOLOMON	58.9	27.4	28.6	28.1
TAM 110	71.8	24.8	34.6	33.8
THUNDERBOLT	60.9	43.4	29.4	33.5
TREGO	80.8	31.9	34.0	32.3
MEAN	69.1	33.2	33.9	29.7
CV	6.43	26.08	17.44	15.04
LSD	7.25	14.12	9.66	7.28

### Western Plains Irrigated Trials

Average	IN	YC	Average
42.5	92.0	83.0	87.5
43.2	94.4	77.2	85.8
43.7	97.9	80.9	89.4
36.0	83.1	62.3	72.7
36.8	85.2	73.1	79.1
33.8	91.9	60.3	76.1
41.5	92.9	74.2	83.6
43.0	88.6	74.9	81.7
44.0	95.7	78.2	87.0
41.3	94.8	74.5	84.6
40.7	91.5	78.8	85.1
37.5	88.9	66.2	77.6
41.4	91.0	76.7	83.9
39.9	94.1	63.7	78.9
39.9	92.7	70.2	81.5
35.7	84.6	74.5	79.5
41.3	93.8	63.7	78.7
41.8	78.7	80.0	79.3
44.7	99.4	72.4	85.9
	90.3	71.0	
	6.15	12.71	
	9.07	14.73	

### Central Plains Trials

Variety	JC	NO	PK	Average
2137	49.9	51.2	47.6	49.6
AKRON	47.8	39.1	44.6	43.8
ALLIANCE	53.9	49.5	48.7	50.7
ARLIN	48.4	42.2	40.2	43.6
BETTY	51.9	46.9	39.2	46.0
HEYNE	44.1	46.6	38.6	43.1
INTRATA	56.1	45.2	43.2	48.2
JAGGER	49.3	49.3	49.3	49.3
LAKIN	53.0	52.3	47.2	50.9
NUFRONTIER	51.5	47.9	40.1	46.5
NUHORIZON	56.2	46.8	36.3	46.5
NUPLAINS	56.1	40.4	38.9	45.1
ORO BLANCO	39.8	48.1	34.7	40.9
PLATTE	50.3	44.4	50.1	48.3
AP401 CL	45.0	41.0	48.5	44.8
SOLOMON	44.1	33.5	46.8	41.5
TAM 110	59.6	44.3	55.3	53.1
THUNDERBOLT	48.7	46.0	37.2	44.0
TREGO	51.8	43.1	48.2	47.7
MEAN	52.2	45.4	44.5	
CV	10.06	11.02	9.38	
LSD	8.57	8.17	6.81	

QK	Quinter, KS
GK	Goodland, KS
OC	Otis, CO
SC	Stratton, CO
IN	Imperial, NE
YC	Hugoton, KS
JC	Junction City, KS
NO	Nardin, OK
PK	Partridge, KS

***Exhibit E.***  
***Statement of the Basis of Applicant's Ownership***

The variety for which Plant Variety Protection is hereby sought was developed by Dr. John Moffatt, an employee of AgriPro Wheat, a business unit of Advanta USA Inc. By agreement between employees and AgriPro Wheat, all rights to any invention, discovery, or development made by the employee while employed by AgriPro Wheat, were assigned to AgriPro Wheat with no rights of any kind pertaining to 'AP401 CL' being retained by the employees.